EDFA-I-27-R

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Inline Erbium-Doped Fiber Amplifier, Rackmount

The Optilab EDFA-I-27-R Erbium-Doped Fiber Amplifier (EDFA) is a high-gain, inline amplifier for the research and development of optical networks. By using a dual amplifier design, EDFA-I-27-R provides optical gain of up to 40 dB while maintaining low noise figure (NF), and is a versatile amplifier that can be used for a wide range of input levels. The EDFA-I-27-R amplifier produces optical output levels up to +27 dBm with an input power level range from -15 dBm to +5 dBm. Contact Optilab for more information.

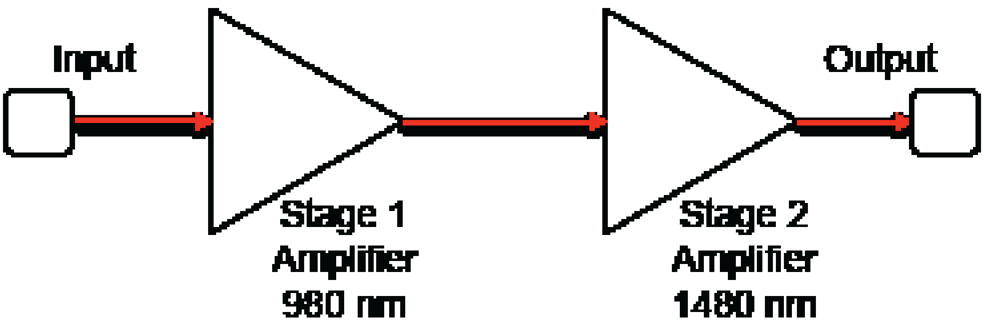
Features

- Reliable 980 nm and 1480 nm pump lasers
- Continuously regulated by microcontroller
- Forward and backward pumping
- Input power level range: -15 dBm to +5 dBm
- Optical gain up to +40 dB
- Automatic Current Control (ACC) (standard)
- LCD digital display and LED status indicators
- Software control through RS-232
- 3 year warranty standard

Applications

- Test Intstrumentation
- R&D

Functional Diagram



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OPTIONS

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TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

PHONE

Contact Optilab at:

1-888-553-3888 (toll-free)
1-602-343-1496 (direct, int'l)

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Phoenix, AZ, USA

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Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Optical Specifications	
Operating Range	1530 nm to 1565 nm
Output Power Level	+27 dBm
Input Power Range	-15 dBm to +5 dBm
Optical Gain	Up to 40 dB
Noise Figure (NF)	5.2 dB max. @ -10 dBm Input
Number of Outputs	1 output standard
Optical Return Loss	50 dB min.
Input/Output Optical Isolation	30 dB min.
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	0.15 dB max.
Output Power Stability	0.15 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28
Mechanical Specifications	
Operating Temperature	0° C to +50° C
Storage Temperature	-40° C to +70° C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	60 W max.
Control	Pump Laser Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	RS232 Interface via DB9
Display	Output Power Level, TEC Temperature
Alarms	Temperature and Current Threshold
Optical Connectors	FC/APC, SC/APC
Housing Dimensions	1RU 19"(W) x 14"(D) x 1.75"(H)

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